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May 31, 2002

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Commissioner for Patents Washington, D.C. 20231

Art Unit 1632

Re:

U.S. Utility Patent Application

Appl. No. 10/052,817; Filed: January 23, 2002

Alpha-2-Macroglobulin Therapies and Drug Screening Methods for For: Alzheimer's Disease

Tanzi et al.

Inventors:

0609.4460005/JAG/FRC Our Ref:

Sir:

Transmitted herewith for appropriate action are the following documents:

- Information Disclosure Statement; 1.
- Listing of the cited documents on Form PTO-1449 (30 sheets); 2.
- A copy of each of the one-hundred and one (101) cited documents on Form PTO-3. 1449; and
- Return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of 4. these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents May 31, 2002

Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

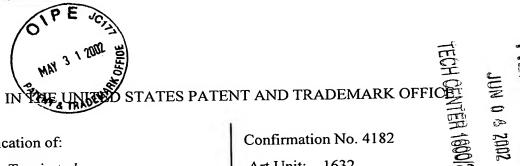
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Frank R. Cottingham
Attorney for Applicants

Registration No. 50,437

FRC/pcd Enclosures

SKGF_DC1:18622.1



In re application of:

Tanzi et al.

Appl. No. 10/052,817

Filed:

January 23, 2002

For: Alpha-2-Macroglobulin Therapies and Drug Screening Methods for

Alzheimer's Disease

Art Unit: 1632

Examiner: To be assigned

Atty. Docket: 0609.4460005/JAG/FRC

Information Disclosure Statement

Commissioner for Patents Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each of these documents is provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

The Examiner is referred to the following related, co-pending patent application:

U.S. Patent Application No. 60/337,434, filed November 9, 2001, inventors Becker et al., submitted herewith as Document AT30.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Document AS30 is the International Search Report for International Application No. PCT/US00/02412, which corresponds to the captioned U.S. Application.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

This Information Disclosure Statement is being filed more than three months after the filing date, but before the mailing date of a first Office Action on the merits. No statement or fee is required.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

trank R. Cottingl-Frank R. Cottingham Attorney for Applicants

Registration No. 50,437

Date: 5/31/02

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FORM PTO-1449

APPLICATION NO. 10/052,817 ATTY. DOCKET NO. 0609.4460005/JAG/FRC

APPLICANT Tanzi et al.

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ATTY. DOCKET NO.

0609.4460005/JAG/FRC

APPLICATION NO.

10/052,817 FORM PTO-1449 APPLICANT Tanzi et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP 01/23/2002 1632 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER CLASS AΑ AB AC ΑD ΑE ΑF AG ΑН ΑI АJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL. DOCUMENT DATE COUNTRY CLASS SUB-TRANSLATION NUMBER CLASS Yes AL No Yes AM No Yes AN No Yes ΑO No Yes AΡ No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Boado, R.J. et al., "Drug delivery of Antisense Molecules to the Brain for Treatment of Alzheimer's Disease and Cerebral AIDS," J. Pharm. Sci. 87:1308-1315, AR 4 American Pharmaceutical Association (November 1998). Borth, W., " $\alpha 2$ -Macroglobulin, a multifunctional binding protein with targeting AS 4 characteristics," FASEB J. 6:3345-3353, FASEB (1992). Bowen, M.E. and Gettins, P.G.W., "Bait Region Involvement in the Dimer-Dimer Interface of Human $\alpha 2\text{-Macroglobulin}$ and in Mediating Gross Conformational AT 4 Change, " J. Biol. Chem. 273:1825-1831, American Society for Biochemistry and

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Molecular Biology, Inc. (January 1998).



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0609.4460005/JAG/FRC

TECH CENTER 1600 2900. APPLICATION NO. 10/052,817

APPLICANT

Tanzi et al.

FILING DATE GROUP 01/23/2002 1632 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER CLASS AA AΒ AC ΑD ΑE AF AG ΑI AJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE COUNTRY CLASS SUB-TRANSLATION NUMBER CLASS Yes ALNo Yes AM No Yes AN No Yes AO No Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Bretaudiere, J-P. et al., "Structure of native $\alpha 2$ -macroglobulin and its transformation to the protease bound form," Proc. Natl. Acad. Sci. USA 85:1437-AR <u>5</u> 1441, National Academy Press (1988). Businaro, R. et al., "Synthesis and secretion of $\alpha 2$ -macroglobulin by human glioma AS <u>5</u> established cell lines," Exp. Brain Res. 88:213-218, Springer-Verlag (1992). Cavus, I. et al., "Inhibition of Long-Term Potentiation Development in Rat Hippocampal Slice by $\alpha 2$ -Macroglobulin, an Acute-Phase Protein in the Brain," J. Neurosci. Res. 43:282-288, Wiley-Liss, Inc. (February 1996). ΑT <u>5</u>

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APPLICATION NO. 10/052,817

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ATTY. DOCKET NO. 0609.4460005/JAG/FRC

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APPLICANT Tanzi et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP 01/23/2002 1632 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER CLASS AA AB AC ΑD ΑE AF AG AΗ ΑI AJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER TNTTTAL. DOCUMENT DATE COUNTRY CLASS SUB-TRANSLATION NUMBER CLASS Yes AL No Yes AM No Yes ΑN No Yes AO No Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Fakler, B. et al., "Short Antisense Oligonucleotide-mediated Inhibition Is Strongly Dependent on Oligo Length and Concentration but Almost Independent of Location of the Target Sequence, " J. Biol. Chem. 269:16187-16194, American AR 8 Society for Biochemistry and Molecular Biology, Inc. (1994). Feldman, S.R. et al., "Model of $\alpha 2$ -Macroglobulin structure and function," Proc. AS 8 Natl. Acad. Sci. USA 82:5700-5704, National Academy Press (1985). Gauderman, W.J. et al., "Family-Based Association Studies," J. Natl. Cancer Inst. ΑT <u>8</u> Monogr. 26:31-37, Oxford University Press (December 1999). EXAMINER DATE CONSIDERED



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ATTY. DOCKET NO. 0609.4460005/JAG/FRC

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Tanzi et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP 01/23/2002 1632 U.S. PATENT DOCUMENTS EXAMINER CLASS SUB-FILING DATE INITIAL DOCUMENT DATE NAME NUMBER CLASS AΑ AB AC AD ΑE ΑF AG ΑH ΑI АJ AK FOREIGN PATENT DOCUMENTS EXAMINER CLASS TRANSLATION DATE COUNTRY SUB-DOCUMENT TNTTTAL CLASS NUMBER Yes No Yes AΜ Yes AN No Yes ΑO No Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Gliemann, J., "Receptors of the Low Density Lipoprotein (LDL) Receptor Family in Man. Multiple Functions of the Large Family Members via Interaction with Complex Ligands, " Biol. Chem. 379:951-964, Walter de Gruyter and Company AR 9 (August/September 1998). Hampe, J. et al., "Mapping Genes for Polygenic Disorders: Considerations for Study Design in the Complex Trait of Inflammatory Bowel Disease," Hum. Hered. AS <u>9</u> 50:91-101, S. Karger AG (March-April 2000). Hardy, J., "Amyloid, the presenilins and Alzheimer's disease," Trends Neurosci. AT 9 20:154-159, Elsevier Science, Ltd. (April 1997). EXAMINER DATE CONSIDERED

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ATTY. DOCKET NO. 0609.4460005/JAG/FRC 10/052,817 APPLICANT Tanzi et al.

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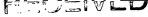
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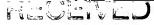
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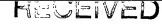
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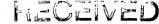
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